

PC 20701C.ST25.txt
SEQUENCE LISTING

<110> Dasseux, Jean Louis
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Buttner, Klaus
Cornut, Isabelle
Metz, Gunther

<120> Apolipoprotein A-I agonists and their use to treat dyslipidemic disorders

<130> 9169-032-999

<140> 10/801,897

<141> 2004-03-15

<150> US 09/865,989

<151> 2001-05-25

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<151> 1999-12-17

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<151> 1997-09-29

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<170> PatentIn version 3.3

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Leu Lys Gln Lys Leu Lys
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Gly Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Trp
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Leu Lys Gln Lys Leu Lys
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Pro val Leu Asp Leu Phe Lys Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Pro val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Gly Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Xaa Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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<400> 12

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Xaa Gln Xaa Leu Xaa
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Gly Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<223> None

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<223> Xaa = D-Pro

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Leu Lys Gln Lys Leu Lys
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<223> None

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Pro val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Gly
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Leu Lys Gln Lys Leu Lys
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Pro Leu Leu Glu Leu Phe Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<220>

<223> None

<400> 24

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Pro val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
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Pro val Leu Asp Phe Phe Arg Glu Leu Leu Asn Glu xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Pro val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Leu
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<223> None

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Trp Glu Ala
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Leu Lys Gln Lys Leu Lys
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<400> 29

Ala Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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<223> N-Terminal dansylated peptide

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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<223> None

<400> 33

Pro Val Leu Asp Leu Phe Arg Glu Lys Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<400> 35

Pro Val Leu Asp Trp Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 36

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<400> 36

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Pro Leu Leu Glu Leu Leu Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Trp Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Trp Lys Gln Lys Leu Lys
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<400> 39

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Leu Lys Ala
1 5 10 15

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Leu Lys Lys Lys Leu Lys
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Pro Val Leu Asp Leu Phe Asn Glu Leu Leu Arg Glu Leu Leu Glu Ala
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Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Trp Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Trp Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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<223> All genetically encoded amino acids are in the D-configuration

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<400> 44

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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1 5 10 15

Leu Lys Gln Lys Leu Lys
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<220>
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<400> 47

Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala Leu
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Lys Gln Lys Leu Lys
20

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Leu Lys Gln Lys Leu Lys
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<220>
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<400> 49

Pro Val Leu Asp Leu Phe Arg Asn Leu Leu Glu Lys Leu Leu Glu Ala
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Leu Glu Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Trp Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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1 5 10 15

Leu Lys Gln Lys Leu Lys
20

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<220>

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<400> 53

Val Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<223> None

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Trp Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Pro Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln
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Lys Leu Lys

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Lys Lys
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<223> None

<400> 59

Leu Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

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Leu Lys Gln Lys Leu Lys
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<400> 60

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln

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1 5 10 15Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Glu Trp Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 63
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Leu Lys Gln Lys Leu Lys
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Pro Trp Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<223> None

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<221> misc_feature

<222> (12)..(12)

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Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala Leu
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Lys Gln Lys Leu Lys
20

<210> 66

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<220>

<223> None

<400> 66

Pro Val Leu Asp Leu Phe Arg Asn Leu Leu Glu Glu Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
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<210> 67

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<223> None

<400> 67

Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu
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Lys Gln Lys Leu Lys
20

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Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Lys Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Glu Phe Arg Lys Lys Leu Asn Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Tyr Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<221> other
<222> (13)..(13)
<223> Xaa = Aib

<400> 72

Pro val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Xaa Leu Trp Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 73
<211> 22
<212> PRT
<213> Artificial

<220>
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<222> (13)..(13)
<223> Xaa = Aib

<400> 73

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Pro Val Leu Asp Glu Phe Trp Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 74
<211> 22
<212> PRT
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<222> (13)..(13)
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<400> 74

Pro Val Leu Asp Lys Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 75
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 75

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 76
<211> 22
<212> PRT
<213> Artificial

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<223> Xaa = Aib

<400> 76

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Phe Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 77

<211> 22

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<223> Xaa = Aib

<400> 77

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Lys Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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<210> 78

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Pro Val Leu Asp Glu Phe Arg Asp Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 79

<211> 22

<212> PRT

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<213> Artificial

<220>

<223> None

<400> 79

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 80

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 80

Pro Val Leu Asp Leu Phe Glu Arg Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
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<210> 81

<211> 22

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<223> None

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<222> (13)..(13)

<223> Xaa = Aib

<400> 81

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Trp Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 82

<211> 20

<212> PRT

<213> Artificial

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<223> None

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<222> (11)..(11)

<223> Xaa = Aib

<400> 82

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1 5 10 15

Gln Lys Leu Lys
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<210> 83

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Leu Trp Gln Lys Leu Lys
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<210> 84

<211> 22

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<220>

<223> None

<400> 84

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 85

<211> 21

<212> PRT

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<213> Artificial

<220>

<223> None

<400> 85

Pro Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu
1 5 10 15

Lys Gln Lys Leu Lys
20

<210> 86

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 86

Pro val Leu Glu Leu Phe Glu Arg Leu Leu Asp Glu Leu Leu Asn Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 87

<211> 22

<212> PRT

<213> Artificial

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<223> None

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<222> (1)..(22)

<223> All amino acids are in the D-configuration

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Pro Leu Leu Glu Leu Leu Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 88

<211> 22

<212> PRT

<213> Artificial

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<223> None

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<223> Xaa = Aib

<400> 88

Pro Val Leu Asp Lys Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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<210> 89

<211> 22

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<223> None

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<222> (13)..(13)

<223> Xaa = Aib

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Leu Lys Gln Lys Leu Lys
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<211> 19

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<223> Xaa = Aib

<400> 90

Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala Leu Lys Gln
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Lys Leu Lys

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<210> 91
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
20

<210> 93
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<220>
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<222> (13)..(13)
<223> Xaa = Aib

<400> 93

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Lys Ala
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Leu Lys Gln Lys Leu Lys
20

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<211> 22
<212> PRT
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<220>
<223> None

<400> 94

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Ala Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Leu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 96
<211> 22
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<222> (1)..(22)

<223> All genetically encoded amino acids are in the D-configuration

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<223> Xaa = Aib

<400> 96

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20

<210> 97

<211> 15

<212> PRT

<213> Artificial

<220>

<223> None

<400> 97

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu
1 5 10 15

<210> 98

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<223> None

<400> 98

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Glu Leu Glu Ala
1 5 10 15Leu Lys Gln Lys Leu Lys
20

<210> 99

<211> 22

<212> PRT

<213> Artificial

<220>

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<223> None

<400> 99

Lys Leu Lys Gln Lys Leu Ala Glu Leu Leu Glu Asn Leu Leu Glu Arg
1 5 10 15

Phe Leu Asp Leu Val Pro
20

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<223> All amino acids are in the D-configuration

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Leu Lys Gln Lys Leu Lys
20

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1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 102

<211> 22

<212> PRT

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<213> Artificial

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<223> None

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<222> (13)..(13)

<223> Xaa = Aib

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Leu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Glu Lys Leu Lys
20

<210> 103

<211> 22

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<220>

<223> None

<400> 103

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 104

<211> 15

<212> PRT

<213> Artificial

<220>

<223> None

<400> 104

Pro Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln Lys Leu Lys
1 5 10 15

<210> 105

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 105

PC 20701C.ST25.txt
 Pro Ala Ala Asp Ala Phe Arg Glu Ala Ala Asn Glu Ala Ala Glu Ala
 1 5 10 15

Ala Lys Gln Lys Ala Lys
 20

<210> 106
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<220>
 <223> None

<400> 106

Pro Val Leu Asp Leu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
 1 5 10 15

Leu Lys Gln Lys Leu Lys
 20

<210> 107
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 <223> All amino acids are in the D-configuration

<400> 107

Lys Leu Lys Gln Lys Leu Ala Glu Leu Leu Glu Asn Leu Leu Glu Arg
 1 5 10 15

Phe Leu Asp Leu Val Pro
 20

<210> 108
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 <223> xaa = Aib

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<400> 108

Pro Val Leu Asp Leu Phe Arg Trp Leu Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 109

<211> 22

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<220>

<223> None

<400> 109

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Arg Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
20

<210> 110

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<223> Xaa - Aib

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Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Xaa Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 111

<211> 22

<212> PRT

<213> Artificial

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<223> None

<220>

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<222> (13)..(13)

<223> Xaa - Aib

<400> 111

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Trp Glu Xaa Trp Glu Ala
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Leu Lys Gln Lys Leu Lys
20

<210> 112

<211> 22

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<223> Xaa - Aib

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Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Ser Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 113

<211> 22

<212> PRT

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<220>

<223> None

<400> 113

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Pro Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 114

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<223> Xaa - Aib

<400> 114

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Met Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 115
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<223> Xaa - Aib

<400> 115

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1 5 10 15

Leu Lys Gln Lys Leu Lys
20

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<223> None

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<222> (13)..(13)
<223> Xaa - Aib

<400> 116

Pro His Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
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10

1 5 15

Leu Lys Gln Lys Leu Lys
20<210> 117
<211> 22
<212> PRT
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<221> MISC_FEATURE
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<223> Xaa - Aib

<400> 117

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1 5 10 15Leu Lys Gln Lys Leu Lys
20<210> 118
<211> 22
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<223> Xaa - Aib

<400> 118

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1 5 10 15Leu Glu Gln Lys Leu Lys
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<400> 119

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Xaa Lys Gln Lys Leu Lys
20

<210> 120
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<400> 120

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Xaa
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Leu Lys Gln Lys Leu Lys
20

<210> 121
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 121

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Leu Trp Gln Lys Leu Lys
20

<210> 122
<211> 22
<212> PRT
<213> Artificial

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<220>

<223> None

<400> 122

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Trp
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 123

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 123

Gln Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 124

<211> 22

<212> PRT

<213> Artificial

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<223> None

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<223> Xaa = Orn

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<223> Xaa = Orn

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<222> (22)..(22)

<223> Xaa = Orn

<400> 124

Pro Val Leu Asp Leu Phe Xaa Glu Leu Leu Asn Glu Leu Leu Glu Ala
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10

1 5 15

Leu Xaa Gln Xaa Leu Xaa
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<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 125

Asn Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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20<210> 126
<211> 22
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<223> None

<400> 126

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Gly Glu Ala
1 5 10 15Leu Lys Gln Lys Leu Lys
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<212> PRT
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<223> None

<400> 127

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<220>
<223> None

<400> 128

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Phe
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 129
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 129

Pro Val Leu Glu Leu Phe Asn Asp Leu Leu Arg Glu Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 130
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 130

Pro Val Leu Glu Leu Phe Asn Asp Leu Leu Arg Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 131
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 131

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Asn Glu Leu Leu Asp Ala
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10

1

5

15

Leu Arg Gln Lys Leu Lys
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<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 132

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Asn Leu Leu Glu Ala
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 133
<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 133

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Leu Gln Ala
1 5 10 15Leu Asn Lys Lys Leu Lys
20<210> 134
<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 134

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Leu Lys Ala
1 5 10 15Leu Asn Gln Lys Leu Lys
20<210> 135
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PC 20701C.ST25.txt

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<220>
<223> None

<400> 135

Asp val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 136
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 136

Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Gln Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 137
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<220>
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<223> Xaa - Naphthylalanine

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Pro val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Xaa Lys Gln Lys Leu Lys
20

<210> 138
<211> 22
<212> PRT
<213> Artificial

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<220>

<223> None

<400> 138

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Trp
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 139

<211> 22

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<220>

<223> None

<400> 139

Pro Val Leu Asp Leu Phe Arg Glu Leu Trp Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<223> None

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<221> MISC_FEATURE

<222> (22)..(22)

<223> Xaa = Orn

<400> 140

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Xaa Gln Xaa Leu Xaa
20

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<210> 141
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 141

Pro Val Leu Asp Phe Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 142
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 142

Pro Val Leu Glu Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 143
<211> 22
<212> PRT
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<220>
<223> None

<220>
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<222> (1)..(22)
<223> N-terminal acetylated and C-terminal amidated peptide

<400> 143

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Leu Lys Gln Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Gly Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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<400> 147

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Phe Asp Ala
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Leu Gln Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Pro Val Leu Glu Leu Phe Glu Asn Leu Trp Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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<400> 150

Pro Leu Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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<400> 151

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<400> 153

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<400> 154

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Gly Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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Pro Val Leu Glu Leu Phe Leu Asn Leu Trp Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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<400> 156

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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<220>

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<400> 157

Pro Val Leu Glu Phe Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

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Leu Gln Lys Lys Leu Lys
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<400> 158

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Trp
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Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Glu Ala
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Leu Gln Lys Lys Leu Lys
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Pro Val Leu Glu Leu Phe Glu Asn Trp Leu Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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<400> 163

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Trp Asp Ala
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Leu Gln Lys Lys Leu Lys
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<400> 164

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
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Trp Gln Lys Lys Leu Lys
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<400> 165

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<400> 167

Pro Val Leu Glu Leu Phe Glu Asn Gly Leu Glu Arg Leu Leu Asp Ala
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Pro Val Leu Glu Leu Phe Glu Gln Leu Leu Glu Lys Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
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<400> 169

Pro Val Leu Glu Leu Phe Glu Asn Gly Leu Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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Leu Gln Xaa Xaa Leu Xaa
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<220>
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<400> 171

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Lys Leu Leu Asp Leu
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Leu Gln Lys Lys Leu Lys
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<400> 172

Pro val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Gly Asp Ala
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Leu Gln Lys Lys Leu Lys
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<400> 173

Pro val Leu Asp Leu Phe Asp Asn Leu Leu Asp Arg Leu Leu Asp Leu
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Leu Asn Lys Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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<220>
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<400> 175

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Leu Asn Lys Lys Leu Lys
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<220>
<223> None

<400> 176

Pro Val Leu Glu Leu Trp Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 177
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<220>

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<400> 177

Gly Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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<400> 178

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Leu Gln Lys Lys Leu Arg
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<400> 179

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Leu Gln Lys Lys Leu Lys
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<220>

<223> None

<400> 180

Pro Val Leu Glu Leu Phe Asp Asn Leu Leu Asp Lys Leu Leu Asp Ala
1 5 10 15

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Leu Gln Lys Lys Leu Arg
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<400> 181

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<220>

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<400> 184

Pro val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Ala
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Trp Gln Lys Lys Leu Lys
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<223> None

<400> 186

Pro val Leu Glu Leu Phe Glu Gln Leu Leu Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys

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<400> 187

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
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Leu Asn Lys Lys Leu Lys
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<400> 188

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Asp Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
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<400> 189

Asp Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Lys
20

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<223> None

<400> 190

Pro Val Leu Glu Phe Trp Asp Asn Leu Leu Asp Lys Leu Leu Asp Ala
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Leu Gln Lys Lys Leu Arg
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Leu Lys

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1 5 10 15

Leu Lys

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
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Leu Lys

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Leu Lys

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1 5 10 15

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Leu Lys

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Leu Lys

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1 5 10 15

Leu Lys

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Leu Lys

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Leu Lys

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Leu Lys

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Leu Lys

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Leu Arg

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Leu Lys

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Leu Lys

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Leu Lys

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<223> None

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Leu Lys

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Leu Lys

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1 5 10 15

Leu Lys

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Leu Lys

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Leu Lys

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Leu Xaa

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Leu Lys

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Leu Lys

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1 5 10 15

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Leu Lys

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<212> PRT
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<220>
<223> None

<400> 216

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

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<400> 217

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Leu Lys

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Leu Lys

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Leu Lys

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Leu Lys

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Leu Lys

<210> 222

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<400> 222

Pro Val Leu Asp Ala Phe Arg Glu Leu Leu Glu Ala Leu Leu Gln Leu
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Lys Lys

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Lys Lys

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Leu Lys

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<400> 225

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Lys Lys

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Lys Lys

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Leu Lys

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Leu Lys

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Leu Lys

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Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Gln Lys Lys
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Leu Lys

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<400> 231

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PC 20701C.ST25.txt
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Leu Lys

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Leu Lys

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<400> 237

Leu Asp Asp Leu Leu Gln Lys Trp Ala Glu Ala Phe Asn Gln Leu Leu
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Lys Lys

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Leu Phe

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Leu Phe

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Ala Phe

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Phe Phe

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<400> 242

Gly Ile Lys Lys Phe Leu Gly Ser Ile Trp Lys Phe Ile Lys Ala Phe
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Val Gly

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<220>
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<400> 243

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu
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Ala Phe

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<212> PRT
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<220>
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<400> 244

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Ala Phe

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Phe Phe

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Leu Phe

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Phe Phe

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Leu Phe

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Leu Phe

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Leu Phe

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Leu Phe

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